Title (en)

FUEL FILLING DEVICE

Title (de)

KRAFTSTOFFEINFÜLLVORRICHTUNG

Title (fr)

DISPOSITIF DE REMPLISSAGE EN CARBURANT

Publication

EP 3360713 A4 20190501 (EN)

Application

EP 16853722 A 20161006

Priority

- JP 2015200985 A 20151009
- JP 2016079853 W 20161006

Abstract (en)

[origin: EP3360713A1] A fuel filling aperture device includes a closing member turned to an open position to open a fuel filling aperture by an introduction of a fuel filling nozzle. The closing member includes a pair of flap members, and urging devices urging the pair of flap members to be positioned at a closed position. Each of the pair of flap members includes a turning assembly portion which becomes a center of the turning, and an abutment portion relative to the other flap member. Also, a seal projecting piece abutting against an opening edge portion of a pass-through opening of the fuel filling nozzle at the closed position, and an edge projecting piece continuing to a terminal of the seal projecting piece, and forming at least one portion of the abutment portion, are formed on a surface portion of each of the pair of flap members.

IPC 8 full level

B60K 15/04 (2006.01); **F02M 37/00** (2006.01)

CPC (source: EP KR US)

B60K 15/04 (2013.01 - EP KR US); **F02M 37/00** (2013.01 - US); B60K 2015/0429 (2013.01 - EP KR US); B60K 2015/0461 (2013.01 - EP KR US); B60K 2015/0538 (2013.01 - EP US)

Citation (search report)

- [A] US 5730194 A 19980324 - FOLTZ DEAN C [US]
- [A] JP 2009083703 A 20090423 - TOYOTA MOTOR CORP
- [A] US 6102234 A 20000815 - KREMER ADOLF [DE], et al
- [A] WO 2013046553 A1 20130404 - NIFCO INC [JP], et al
- [A] US RE37776 E 20020702 - FOLTZ DEAN C [US]
- See references of WO 2017061571A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 3360713 A1 20180815; **EP 3360713 A4 20190501**; **EP 3360713 B1 20200219**; CN 108367673 A 20180803; CN 108367673 B 20210406; JP 2017071361 A 20170413; JP 6556014 B2 20190807; KR 101744453 B1 20170607; KR 20170042467 A 20170419; US 10500948 B2 20191210; US 2018290538 A1 20181011; WO 2017061571 A1 20170413

DOCDB simple family (application)

EP 16853722 A 20161006; CN 201680070498 A 20161006; JP 2015200985 A 20151009; JP 2016079853 W 20161006; KR 20160119404 A 20160919; US 201615766615 A 20161006